QC ABSTRACT

NAME OF WORK: Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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7	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	4 set /31-100 cum	51.91	8	8
9	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	7 sets /200-250 cum	204.53	14	14
10	GSB	SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-05-20-27** **Date: 07-04-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-04-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.95	_
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-05-20-27** **Date: 03-05-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	05-04-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-05-20-27** **Date: 07-04-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	04-04-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-04-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	211	211	1.4	98.6	90-100
3	20 mm	7355	7566	50.4	49.6	30-70
4	10 mm	4219	11785	78.6	21.4	10-35
5	4.75 mm	2855	14640	97.6	2.4	0-5
6	Pan	360	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-05-20-27** **Date: 07-04-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.24	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2023-05-20-27 **Date: 07-04-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-04-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	248	248	5.0	95.0	90-100
3	10 mm	2188	2436	48.7	51.3	25-55
4	4.75 mm	2285	4721	94.4	5.6	0-10
5	Pan	279	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-05-20-27** **Date: 07-04-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.42	_
5	Bulk Density(Compacted) (Kg/l)	1.48	_
6	Water Absorption(%)	0.35	_
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-05-20-27** **Date: 06-04-23**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)

Agency : Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/204/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-04-23

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 04-04-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	211	417	41.7	58.3	30-70	55-90	75-100	90-100
5	600 micron	158	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	236	811	81.1	18.9	5-20	8-30	12-40	15-50
7	150 micron	146	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-05-20-27**

Date: 06-04-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	4.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST RESULTS OF STEEL

Date: 11-04-23

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	10-04-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Date: 29-04-23

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-04-23
Sample Type /Size	:	Precast Cover Slab - 100mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	25/04/2023
Grade of Slab	:	M20

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.32	100.48	1.116	4695	80.9	17.2	16.0	20.0
2	Cover Slab-2	77.43	100.52	1.122	4708	82.3	17.5	16.3	20.3
3	Cover Slab-3	77.51	100.51	1.118	4718	81.5	17.3	16.1	20.1

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

Date: 29-04-23

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-04-23
Sample Type /Size	:	Precast Cover Slab - 230mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	25/04/2023
Grade of Slab	:	M20

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.45	230.25	1.236	4710	81.3	17.3	16.1	20.1
2	Cover Slab-2	77.53	230.61	1.214	4720	82.1	17.4	16.2	20.2
3	Cover Slab-3	77.50	230.50	1.236	4716	83.4	17.7	16.4	20.6

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-2023-05-20-27** **Date: 02-05-23**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-04-23
Type of Mix	:	GSB (Granular Sub Base)
Date of Test	:	28-04-23
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/04/2023

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-04-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	11/04/2023	18/04/2023	149.64 X 149.33 X 151.76	22345	8.707	415.7	18.6	18.8
2	Drain Bottom Raft Concrete	M20	11/04/2023	18/04/2023	149.07 X 149.97 X 150.53	22357	8.286	420.9	18.8	
3	Drain Bottom Raft Concrete	M20	11/04/2023	18/04/2023	149.72 X 151.46 X 149.20	22675	8.182	428.3	18.9	

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/05/2023

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-04-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	11/04/2023	09/05/2023	150.66 X 151.93 X 151.55	22889	8.965	535.2	23.4	23.2
2	Drain Bottom Raft Concrete	M20	11/04/2023	09/05/2023	149.78 X 149.46 X 150.20	22385	8.119	498.1	22.2	
3	Drain Bottom Raft Concrete	M20	11/04/2023	09/05/2023	150.64 X 150.17 X 149.75	22621	8.336	542.0	24.0	

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Quality Manager

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/04/2023

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/04/2023	22/04/2023	149.46 X 149.12 X 150.56	22288	8.199	422.0	18.9	18.5
2	Drain Side Wall Concrete	M20	15/04/2023	22/04/2023	151.71 X 149.84 X 149.87	22732	8.141	419.7	18.5	
3	Drain Side Wall Concrete	M20	15/04/2023	22/04/2023	151.89 X 150.83 X 150.29	22911	8.755	415.6	18.1	

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Authorized Signatory
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-05-20-27** **Date: 13/05/2023**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)

Agency : Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/204/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-04-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/04/2023	13/05/2023	149.59 X 151.16 X 151.80	22613	8.846	540.2	23.9	23.0
2	Drain Side Wall Concrete	M20	15/04/2023	13/05/2023	150.75 X 149.05 X 150.04	22469	8.825	496.2	22.1	
3	Drain Side Wall Concrete	M20	15/04/2023	13/05/2023	151.77 X 149.29 X 149.67	22657	8.861	524.7	23.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/04/2023

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-23
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	13/04/2023	20/04/2023	150.88 X 151.52 X 150.05	22861	8.836	429.1	18.8	18.8
2	Culvert Bottom Raft Concrete	M20	13/04/2023	20/04/2023	149.91 X 151.47 X 151.61	22707	8.430	431.3	19.0	
3	Culvert Bottom Raft Concrete	M20	13/04/2023	20/04/2023	150.92 X 150.70 X 149.43	22744	8.665	421.4	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/05/2023

Lab ID	:	CP-2023-05-20-27
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-23
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	13/04/2023	11/05/2023	149.99 X 149.81 X 149.93	22470	8.365	519.5	23.1	22.9
2	Culvert Bottom Raft Concrete	M20	13/04/2023	11/05/2023	151.56 X 151.80 X 151.67	23007	8.506	518.1	22.5	
3	Culvert Bottom Raft Concrete	M20	13/04/2023	11/05/2023	149.51 X 151.89 X 150.25	22710	8.489	525.1	23.1	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/05/2023

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-23
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	25/04/2023	02/05/2023	149.18 X 149.39 X 151.73	22286	8.348	423.2	19.0	18.7
2	Culvert Side Wall Concrete	M20	25/04/2023	02/05/2023	150.40 X 149.34 X 150.35	22461	8.167	414.3	18.4	
3	Culvert Side Wall Concrete	M20	25/04/2023	02/05/2023	149.21 X 150.12 X 149.80	22400	8.811	417.7	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/05/2023

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-23
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	25/04/2023	23/05/2023	152.00 X 149.46 X 149.61	22718	8.988	536.4	23.6	23.3
2	Culvert Side Wall Concrete	M20	25/04/2023	23/05/2023	151.44 X 151.16 X 150.30	22893	8.910	515.3	22.5	
3	Culvert Side Wall Concrete	M20	25/04/2023	23/05/2023	151.60 X 149.12 X 151.37	22606	8.631	538.2	23.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/05/2023

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-05-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	149.15 X 149.15 X 150.18	22245	8.819	565.6	25.4	25.3
2	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	150.64 X 150.20 X 150.16	22626	8.983	600.5	26.5	
3	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	151.68 X 151.79 X 149.73	23025	8.393	553.6	24.0	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-05-20-27** **Date: 30/05/2023**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)

Agency : Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/204/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	150.31 X 151.34 X 150.59	22747	8.801	763.6	33.6	33.3
2	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	151.29 X 149.65 X 150.52	22639	8.683	731.6	32.3	
3	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	149.28 X 149.39 X 149.62	22301	8.916	757.8	34.0	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-05-20-27** **Date: 09/05/2023**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)

Agency : Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/204/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	151.82 X 151.01 X 151.46	22926	8.855	579.2	25.3	25.4
2	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	151.36 X 150.68 X 149.32	22807	8.601	599.7	26.3	
3	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	149.85 X 149.08 X 151.94	22340	8.551	549.3	24.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/05/2023

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-05-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	150.97 X 151.01 X 151.24	22797	8.539	756.2	33.2	33.2
2	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	151.68 X 149.58 X 151.88	22688	8.365	747.8	33.0	
3	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	151.84 X 149.42 X 151.80	22689	8.712	758.9	33.4	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/05/2023

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-05-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	151.62 X 151.91 X 151.58	23032	8.921	586.4	25.5	25.2
2	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	149.51 X 151.51 X 149.39	22651	8.475	591.7	26.1	
3	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	150.72 X 150.87 X 150.52	22740	8.206	546.4	24.0	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/05/2023

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-05-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	150.90 X 149.18 X 149.51	22512	8.747	749.2	33.3	32.9
2	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	150.59 X 150.47 X 149.38	22659	8.742	731.5	32.3	
3	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	150.17 X 151.91 X 151.27	22812	8.449	758.0	33.2	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/05/2023

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-05-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	149.94 X 150.75 X 150.29	22604	8.587	572.4	25.3	25.3
2	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	151.35 X 151.35 X 150.97	22907	8.369	596.1	26.0	
3	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	150.75 X 150.80 X 149.34	22734	8.498	558.0	24.5	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/05/2023

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-05-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	150.89 X 149.32 X 149.94	22530	8.595	756.1	33.6	33.3
2	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	150.87 X 150.26 X 151.94	22670	8.105	744.8	32.9	
3	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	150.22 X 151.02 X 151.30	22686	8.497	758.5	33.4	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/05/2023

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	05/05/2023	12/05/2023	149.63 X 151.03 X 151.70	22599	8.946	569.5	25.2	25.5
2	Cement Concrete Pavement	M30	05/05/2023	12/05/2023	151.89 X 151.84 X 151.08	23063	8.785	614.0	26.6	
3	Cement Concrete Pavement	M30	05/05/2023	12/05/2023	151.67 X 150.73 X 149.53	22861	8.127	566.8	24.8	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/06/2023

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	05/05/2023	02/06/2023	151.86 X 150.08 X 150.42	22791	8.869	761.0	33.4	33.0
2	Cement Concrete Pavement	M30	05/05/2023	02/06/2023	149.96 X 149.26 X 151.25	22383	8.665	727.5	32.5	
3	Cement Concrete Pavement	M30	05/05/2023	02/06/2023	149.64 X 151.25 X 151.86	22633	8.355	751.8	33.2	

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/05/2023

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	05/05/2023	12/05/2023	149.07 X 150.20 X 150.97	22390	8.317	568.8	25.4	25.3
2	Cement Concrete Pavement	M30	05/05/2023	12/05/2023	149.03 X 150.41 X 151.52	22416	8.651	591.0	26.4	
3	Cement Concrete Pavement	M30	05/05/2023	12/05/2023	151.15 X 150.66 X 150.62	22773	8.613	551.8	24.2	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/06/2023

Lab ID	:	**CP-2023-05-20-27**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drains, Culverts and Cement Concrete road at Dasarahalli Karagadamma Temple, Opposite road in Ward no.06 (Thanisandra)
Agency	:	Sri.M.Prakash, S/o Munihucappa, No:41, 2nd Cross, Venkatappa Layout, Amruthahalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	05/05/2023	02/06/2023	151.63 X 149.99 X 150.19	22744	8.332	771.3	33.9	33.2
2	Cement Concrete Pavement	M30	05/05/2023	02/06/2023	149.77 X 149.15 X 150.45	22339	8.904	714.9	32.0	
3	Cement Concrete Pavement	M30	05/05/2023	02/06/2023	151.66 X 151.03 X 150.12	22906	8.849	774.7	33.8	

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	05/05/2023	12/05/2023	149.63 X 149.36 X 150.74	22349	8.751	569.2	25.5	25.6
2	Cement Concrete Pavement	M30	05/05/2023	12/05/2023	149.34 X 151.97 X 150.04	22695	8.718	606.8	26.7	
3	Cement Concrete Pavement	M30	05/05/2023	12/05/2023	151.83 X 149.23 X 149.85	22657	8.974	556.3	24.6	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Customer's Reference	:	BBMP/EE/BTP/WO/204/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-23
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	05/05/2023	02/06/2023	151.07 X 150.12 X 151.18	22678	8.922	754.0	33.2	33.3
2	Cement Concrete Pavement	M30	05/05/2023	02/06/2023	151.32 X 149.61 X 150.59	22639	8.619	740.2	32.7	
3	Cement Concrete Pavement	M30	05/05/2023	02/06/2023	151.13 X 150.42 X 150.02	22733	8.941	770.3	33.9	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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